

PRODUCTION OF LIQUID CRYSTAL DISPLAY ELEMENT

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Abstract

PURPOSE: To prevent deterioration or decomposition of a liquid crystal by UV rays and to provide a display element having high uniformity in the display by including a process of irradiating both electrode substrates with UV rays through a mask having a specified pattern and a filter which cuts UV rays in a wavelength region under a specified wavelength.

CONSTITUTION: (a) A UV-curing sealing material 3 containing benzoin isobutylether as a photoinitiator is formed into a specified pattern on a first electrode substrate 1. (b) Then a liquid crystal 4 is dropped to the surface of the first electrode substrate 1 surrounded with the sealing material 3, while a spacer to control the gap is distributed on a second substrate 2 opposite to the first substrate. (c) Further, the first and second electrode substrates 1, 2 are laminated in vacuum. (d) The both electrode substrates 1, 2 (substrate 9 as a whole) are irradiated with UV rays from a UV lamp 8 through a mask 6 having a specified pattern and a filter 7 which cuts UV rays in the wavelength region under specified wavelength.

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